



PATENT ABSTRACTS OF JAPAN

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G02F 1/13(21) Application number: **11238071**(22) Date of filing: **25.08.1999**(71) Applicant: **NEC KAGOSHIMA LTD**(72) Inventor: **YOSHIZOE HIDEFUMI****(54) LIQUID CRYSTAL DISPLAY PANEL AND ITS MANUFACTURE****(57) Abstract:**

PROBLEM TO BE SOLVED: To prevent contamination of a liquid crystal due to a sealing member and to enable controlling the excess of a liquid crystal and high quality display by providing a hollow region in a spacer member and providing an opening communicating with the hollow region in an inner wall of the spacer member.

SOLUTION: A spacer member 4 is provided with a hollow region 6 and an opening communicating with the hollow region 6 is provided in an inner wall of the spacer member 4. The frame shaped spacer member 4 which combines roles for preventing contamination of a liquid crystal 5 with a sealing member 3 and for controlling a cell gap of a panel is provided with the pocket-shaped hollow region 6 so that excess of the liquid crystal 5 enters into the hollow region and the quantity of the liquid crystal 5 in a display region of the liquid crystal display panel is suitably controlled.

In this construction, as the excess of the liquid crystal can enter into the hollow region 6 provided in the spacer member 4, the spacer member 4 functions also as a buffer and a gap between counter substrates can be fixedly maintained and high display quality can be maintained.

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